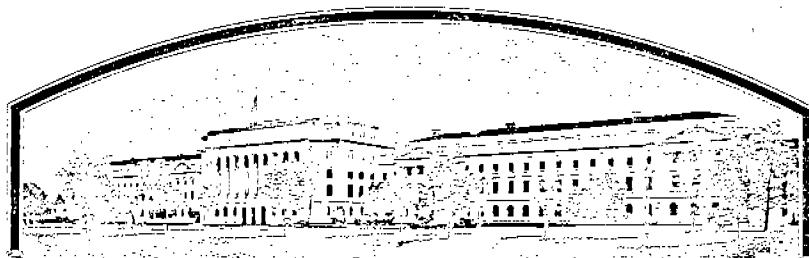


No.

7200003



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Denholm Seeds

**Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

NASTURTIIUM

'Golden Jewel'

*In Testimony Whereof, I have hereunto set
my hand and caused the seal of the Plant
Variety Protection Office to be affixed
at the City of Washington
this 20th day of November in
the year of our Lord one thousand nine
hundred and seventy-four*

Attest

L. J. Rollin
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Earl L. Butz
Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION	2. KIND NAME	FOR OFFICIAL USE ONLY	
Golden Jewel	NASTURTIIUM	PV NUMBER	72003
3. GENUS AND SPECIES NAME	4. FAMILY NAME (Botanical)	FILING DATE	TIME
Tropaeolum majus	Tropaeolaceae	7-19-71	3 P.M.
5. DATE OF DETERMINATION		FEE RECEIVED	BALANCE DUE
1970		\$ 250	\$ -
		\$ 250	\$ -
		\$ 250	\$ -
6. NAME OF APPLICANT(S)	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	8. TELEPHONE AREA CODE AND NUMBER	
DENHOLM SEEDS	222 North "A" Street Lompoc, California 93436	805-736-2703	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)	10. STATE OF INCORPORATION	11. DATE OF INCORPORATION	
Corporation	California	1952	

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

Harry A. Joy c/o Denholm Seeds, 222 North A Street
Lompoc, Calif. 93436

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Botanical Description of the Variety
- ☒ 13C. Exhibit C, Objective Description of the Variety
- ☒ 13D. Exhibit D, Data Indicative of Novelty
- ☒ 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☐ YES ☒ NO14C. If "Yes," to 14B, how many generations of production beyond breeder seed? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

10/4/73
(DATE)Harry A. Joy
(SIGNATURE OF APPLICANT)

1

(DATE)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

Exhibit A

Origin and Breeding History of the Variety

1. "Golden Jewel" originated as a selection from the variety Jewel Mixed taken in 1965.
2. Selections were made each year for five years and in 1970 pure lines were obtained and the increase to the stock seed stage commenced. The first commercial crop was planted in 1972.
3. This line gives very little problem as far as roguing is concerned as very few off colors show. We have to watch for the tall trailing plants which normally show in dwarf Nasturtium varieties.
4. A crop was grown in 1973 and very little roguing took place. This consisted mainly of removing some trailing type plants.

Exhibit B

Botanical Description of the Variety

1. "Golden Jewel" is a dwarf type of Nasturtium with semi-double golden yellow flowers. One of the distinct features is that the flowers stand well clear of the foliage.

The plants grow to about 30 cm in height and the foliage is medium green in color. The flowers are semi-double and are approximately 5-6 cm. in diameter.

This variety flowers freely in the cooler, coastal areas. In warmer climates the best show is produced early and late in the season when the temperatures are lower.

OBJECTIVE DESCRIPTION OF VARIETY
NASTURTIIUM (TROPAEOLUM SPP.)

NAME OF APPLICANT(S) Denholm Seeds	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 222 North "A" Street Lompoc, Calif. 93436	PVPO NUMBER 72203 VARIETY NAME OR TEMPORARY DESIGNATION Golden Jewel

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. 089 or 09) when number is either 99 or less or 9 or less.

1. SPECIES:

1 1 = MAJUS 2 = PELTOPHORUM (Lobblanum) 3 = PEREGRINUM 4 = MINUS
5 = OTHER (Specify) _____

1 1 = DIPLOID 2 = TETRAPLOID 3 = OTHER (Specify) _____

2. PLANT:

2 1 = TALL/CLIMBING > 60 CM. 2 = BUSH < 60 CM.

030 CM. HIGH

60 DAYS FROM EMERGENCE TO ANTHESIS

3. STEM (Mature):

1 1 = SUCCULENT, THICK 2 = NOT SUCCULENT, RIGID 3 = WOODY

4. LEAF:

3 Shape: 1 = SCALLOPED 2 = DIVIDED OR LOBED 3 = ENTIRE

06 CM. ACROSS (Leaf size)

08 CM. PETIOLE LENGTH

1 Surface: 1 = NOT GLAUCOUS 2 = GLAUCOUS

2 Order when crushed: 1 = MILD 2 = PUNGENT

2 Color: 1 = LIGHT GREEN (Whirlybird) 2 = MEDIUM GREEN 3 = DARK GREEN (Glorius Gleam) 4 = VARIEGATED

5. FLOWER:

2 Type: 1 = SINGLE (< 5 petals) 2 = SEMIDouble (8 - 15 PETALS)
3 = DOUBLE (> 15 petals) 4 = VARIOUS TYPES ON SAME PLANT

06 CM. ACROSS (Flower size)

08 CM. PEDUNCLE LENGTH

2 Petal Shape: 1 = POINTED 2 = NOTCHED 3 = ENTIRE

2 Petal Margin: 1 = STRAIGHT 2 = WAVY

2 Spur: 1 = ABSENT 2 = PRESENT

2 Spur: 1 = STRAIGHT 2 = CURVED

2 Pistil: 1 = ABSENT 2 = PRESENT

2 Pollen: 1 = ABSENT 2 = PRESENT

5. FLOWER (Continued) :

1 Flower Color: 1 = UNIFORM 2 = VARIABLE ON SAME PLANT

2 1 = WHITE 2 = YELLOW 3 = ORANGE 4 = RED-ORANGE 5 = RED 6 = SCARLET
7 = MAROON 8 = VARICOLORED (Describe) _____

1 Dark Spot: 1 = ABSENT 2 = PRESENT

6. DISEASE RESISTANT: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☐ LEAF SPOT
 ☐ SPOTTED WILT
 ☐ MOSAIC
 ☐ OTHER (Specify) _____

7. INSECT RESISTANT: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☐ 0 APHIDS ☒ OTHER (Specify) _____

8. INDICATE A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	VARIETY	CHARACTER	VARIETY
Plant type	Gem or Globe Golden	Flower type	Gem or Globe Golden
Plant size	Gem or Globe Golden	Flower size	Gem or Globe Golden
Leaf shape	Gem or Globe Golden	Petal shape	Gem or Globe Golden
Leaf size	Gem or Globe Golden	Petal color	Gem or Globe Golden
Petiole length	Gem or Globe Golden	Spur shape/length	Gem or Globe Golden

REFERENCES

Bailey, L. H. 1949. Manual of Cultivated Plants. MacMillan, New York, N.Y.

USDA Year Book Separate, 1937. Improvement of Flowers by Breeding.

COMMENTS:

Exhibit D

Data Indicative of Novelty

Novelty is based on the flowering characteristics:

1. Dwarf Habit
2. Semi-double flowers above the foliage
3. First dwarf Golden Yellow variety of the Jewel type to be homozygous for color

Exhibit E

Statement of Applicant's Ownership

Denholm Seeds, Lompoc, California believes it is the sole, original and first breeder of the "Crimson Jewel" variety of Nasturtium for which it solicits a certificate of protection.